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ATLASES, NORMALS AND SUMMARIES CD-ROMS (Page 1 of 3)

1. The Climate Atlas of the United States (Version 2.0) (CDATLAS2)

This CD-ROM contains the version 2.0 of the Climate Atlas of the United States. It replaces a popular paper Atlas last published in 1968, and supersedes the Climate Atlas of the Contiguous United States published on CD in 2000. The new CD Atlas contains 2023 color maps of climatic elements such as temperature, precipitation, snow, wind, pressure, etc., chosen to portray the climate of the US. The period of record of the data for most of the maps is 1961-1990. The user may install the Atlas onto a local drive, or run the Atlas from the CD. From the Atlas interface, the user chooses an element type (Temperature, or Precipitation, or Snow, etc.), an element (mean, or maximum, or record extreme, etc.), and a geographic area (Lower 48, Alaska, or Hawaii). The Atlas displays maps of the selected element and area using ESRI's ArcExplorer, which is included on the CD. ArcExplorer provides GIS capabilities, such as zoom, query, identify, and theme layering. The Atlas provides access to extensive help and documentation directly from its interface. The same help and documentation are available from NCDC's Atlas Help and Atlas Documentation pages. Additionally, the CD contains all of the data (in "dbf" format) used to produce the Atlas. **\$175.00**

2. Climate Atlas of the Contiguous United States (CDATLAS)

This CD-ROM contains the Climate Atlas of the Contiguous United States. This original version of the CD Atlas contains 737 color maps of climatic elements such as temperature, precipitation, snow, wind, pressure, etc., chosen to portray the climate of the contiguous US (not including Alaska or Hawaii). The period of record of the data for most of the maps is 1961-1990. Samples of several maps are available from the Climate Atlas of the Contiguous United States web page. Most of these maps can also be ordered individually in a high resolution Adobe PDF format, or as ESRI Shape Files. Also available is a publication, Selected Maps from the Climate Atlas of the Contiguous US, that contains maps for 20 of the more requested products from this CD-ROM. For information about installation, see version 2.0 above. **\$50.00**

3. U.S. Navy Marine Climatic Atlas of the World (Version 1.1) (CDMARINE)

Includes analysis and display software for climatological averages of atmospheric and oceanographic data. The data are summarized with user-defined 1 and 5 degree grid areas covering the global marine environment. The summaries are produced using predominately ship data collected between 1854-1969. The major elements include air and sea temperature, dew point temperature, scalar wind speed, sea-level pressure, wave height, wind and ocean-current roses. This CD-ROM allows the user to define element intervals (e.g. 5 to 10 knots, 2 degree temperature intervals). The CD-ROM also allows contouring for explicitly user-defined regions and exporting data to a printer or diskette. Narratives for Mediterranean ports and ocean basin climatology narratives are included in this updated version. U.S. Navy sponsored product. Requires 540K of RAM. DOS only... **\$175.00**

4. Global Upper Air Climatic Atlas (GUACA) (Version 1.0) (CDGUACA)

This two-volume CD-ROM set uses 12 year (1980-1991) 2.5 degree gridded upper air climatic summaries derived from the European Centre for Medium Range Weather Forecasts (ECMWF) model analyses. The CD-ROM presents upper air statistics for 15 different vertical levels in the Northern and Southern Hemisphere for dry bulb and dew point temperature, geopotential height, air density, and vector and scalar wind speed. The CD-ROM provides access/display software for gridpoint data, contouring capability for user-defined areas, and vertical profiles. The climatology covers the 12-year period as well as individual year-months. Joint NCDC and U.S. Navy product. An ASCII data CD-ROM (no graphic interface) is also available covering the 1980-1995 period. DOS only. **\$350.00**
ASCII data CD ROM without graphic interface covering 1980-95 (CDGUAS) **\$100.00**

5. Global Tropical and Extratropical Cyclone Climatic Atlas (Version 2.0) (CDGTEC)

This single volume CD-ROM contains all global historic tropical storm track data available for five tropical storm basins. Periods of record vary for each basin with the beginning as early as the 1870's and with 1995 as the latest year. Northern hemispheric extratropical storm track data are included from 1965 to 1995. Tropical track data includes time, position, storm stage (and maximum wind, central pressure when available). The user has the capability to display tracks, and track data for any basin or user-selected geographic area. The user is also able to select storm tracks passing within a user-defined radius of any point. Narratives for all tropical storms for the 1980-1995 period are included along with basin-wide tropical storm climatological statistics. Joint NCDC and U.S. Navy product. Requires 520K RAM memory. DOS only. **\$175.00**

6. U.S. Monthly Climate Normals (1971-2000) (CDCLIM81)

This CD-ROM contains 1971-2000 U.S. monthly station normals for the 50 U.S. states, Pacific Islands, Virgin Islands, and Puerto Rico. The normals can be accessed in both the Adobe PDF and ASCII file formats from a simple html interface. This product includes normals of average monthly and annual maximum, minimum, and mean temperature (degrees F), monthly and annual total precipitation (inches), and heating and cooling degree days (base 65 degrees F). **\$75.00**

7. U.S. Daily Climatic Normals (1971-2000) (CDCLIM84)

This CD provides the 1971-2000 Daily Normals of temperature, precipitation, and degree days for nearly 8000 weather stations. It also contains the monthly, seasonal, and annual Normals along with the precipitation probabilities and quintiles. The interface allows the user to select an easily readable web form, or a text file that can be imported into a spreadsheet. Microsoft Internet Explorer is required to view and print the web form. Text files can be accessed directly without the use of a web browser. The data are published by station. **\$75.00**

8. U.S. Divisional and Station Climatic Data and Normals (1961-1990 and Earlier) (Volume 1.0) (CDUSDS)

This NCDC CD-ROM contains a collection of ASCII text data and documentation files that pertain to the U.S. climate normals and by-products of the normals. Climatic variables include temperature, precipitation, degree days, and Palmer Drought Indices. The normals period for 1961-1990 is covered with monthly values calculated for approximately 6600 precipitation and 4700 temperature stations. Earlier data/normals are provided for comparison and research applications. This CD-ROM contains no software or extraction routines that allow users to import the data directly into their spreadsheets or other applications. Format and description of the files match NCDC magnetic tape series TD-9640 and TD-9641. **\$100.00**

9. Global Climate Normals (1961-1990) (CDGCN)

This CD-ROM contains a collection of DOS files which describe the 1961 - 1990 global standard climate normals for over 4000 stations worldwide, computed by more than 135 countries and territories. The files include ASCII data files, documentation files, eye-readable ASCII table files, graphics files, and limited extraction software. The data are provided in large files with a fixed length record format. They can be read by software written by the user according to the format specifications outlined in the documentation files. The data files may also be opened by any ASCII-compatible application that can handle large data volumes. The graphics files are maps identifying the countries that submitted normals. This CD-ROM contains no software or extraction routines that allow users to import the data directly into their spreadsheets or other applications. NCDC product in conjunction with the World Meteorological Organization. **\$100.00**

10. International Station Meteorological Climate Summary (ISMCS) (Version 4.0) (CDISMC)

The ISMCS Version 4.0 CD-ROM gives detailed climatological summaries for 2600 locations worldwide. These locations include National Weather Service stations, domestic and overseas Navy and Air Force sites, and numerous foreign stations. Limited summaries are also given for approximately 4000 additional worldwide sites. This version also contains year/month and long term mean precipitation data for 1000 foreign locations. Tabular or statistical data can be exported to a printer or spreadsheet. Joint NCDC, USAF and U.S. Navy product. DOS only. Three various climatic summary type tables are available on the ISMCS. Each summary has climatic tables which vary in content and format. **\$175.00**

11. Engineering Weather Data (Includes Air Force Supplemental CD) (CDEWD)

This CD-ROM contains an update of a very popular publication that was first printed by the Air Force in 1967 and republished in 1978. As compared to the Engineering Weather Data publication, the new interactive CD-ROM data base contains updated meteorological tables, new summarized parameters, and graphical displays. Approximately 800 worldwide stations have been summarized. The period of record summarized for most stations is 1973-1996. For each station, the data and information on this CD-ROM include: summarized design criteria data for dry and wet bulb temperatures and humidity ratios, average annual climate summaries, psychrometric summaries, binned temperature data, annual temperature and humidity summaries, heating and cooling degree data summaries for building envelop loads, ventilation and infiltration loads, solar radiation data, and seasonal wind direction and wind speed summaries. **\$100.00**

12. Probabilities of Temperature Extremes in the United States (CDTEMP)

This CD-ROM provides the capability to estimate the probability, for 332 locations in the 50 U.S. states, that an extreme temperature will occur for 1 or more consecutive days and/or for any number of days in a given month or season, based on statistics from the observed climate. It also provides the capability to examine how the probabilities might change given a monthly forecast of above or below normal temperatures or even to examine climate change scenarios. This can be done by modifying the normal statics through adjustment of any or all 4 statistics that describe the daily temperatures. It then estimates the scenario probabilities as well. Normal and scenario probabilities are shown as graphs for both consecutive days and any days. Scenario adjustments can be user supplied or calculated from climate model (GFDL, UKMO) projections. Installation instructions provided. **\$175.00**

13. Long-Term Data Sets About Freezing Rain and Ice Storms in the United States (CDFRZRAIN)

This project developed historically reliable data sets on freezing rain occurrences and ice storm losses. The specific objectives were to develop enhanced climatological data sets and make these data available to the scientific, government and business communities. This volume includes the following data sets: 1) Frequency of days per month with freezing rain as recorded at over 235 first order stations; 2) Frequency of days per month with freezing rain as recorded at over 740 cooperative observer (and some airport) stations; 3) Frequency of hours per month with freezing rain as recorded at over 235 first order stations; and 4) Ice storm loss data for 1949-2000 based on property insurance data. Created by Changnon Climatologist, Mahomet, IL in conjunction with NCDC. Funded by the Office of Global Programs of NOAA. **\$25.00**

14. United States Snow Climatology (CDSNOW)

This 3-disk CD-ROM Set describes the snow climatology of the United States. Snowfall and snow depth data through 1996 were analyzed for 5525 stations in the contiguous U.S. and Alaska. Climatic variables include daily, monthly, and seasonal snowfall and snow depth (snow cover). Computed statistics include mean, median, quartiles, extremes, frequencies, and the number of years with non-missing data. Several indicators were computed, based on the data and metadata, to enable the user to assess the quality of the stations. These include frequencies of station moves and observation time changes, number of missing values and breaks in the record, number of values failing the QC checks, and percentages indicating how complete the data record is. The snow climatology CD-ROM also includes files from two other NCDC projects: return period statistics of seasonal (August-July) 1-day, 2-day, and 3-day extreme snowfall, and total seasonal snowfall amount, for 10-year, 25-year, and 100-year return periods; 1961-1990 snowfall and snow depth normals. The CD-ROM set is a collection of DOS ASCII files; the CD contains no software or extraction routines that allow the user to import data directly into spreadsheets or other applications. Files may be copied from the CD-ROM with the DOS copy command. **\$300.00**

15. Coastal-Marine Automated Network (C-MAN) Station and Buoy Reports and Summarized Elements (CDSEAB)

This two-volume CD-ROM set contains climatic summaries and archived observations measured by National Data Buoy Center (NDBC) moored buoys and C-MAN stations for 197 sites. The period of record generally covers a 3-20 year period depending on the station and ends with December 1993. The two volume set consists of archived observations and climatic summary tables. All measurements are included except for spectral wave and subsurface measurements. A map shows station locations and data inventories show measurements and time periods for each station. The following elements are summarized: monthly frequency distributions of wind speed, wind gust, sea level pressure, air and sea temperature, air-sea temperature difference, dew point (where available), significant wave height, average and dominant wave period. Additional tables include: wind speed versus direction, significant wave height versus dominant and average wave periods, significant wave height versus wind speed. The individual monthly means and extremes for all measurements are included. Stations with less than 3 years of data will only have individual monthly means and extremes summarized. Joint NCDC and NDBC product. Requires 420K of RAM memory. This item is sold only as a set and is for DOS use only. **\$350.00**

16. Local Climatological Data Annual Summaries (CDLCDA)

This CD-ROM contains Local Climatological Data Annual Summaries for all stations that were published. The annual summary includes that specific year's monthly summaries as well as climatic normals and extremes. Tables showing a 30 year monthly history of temperature means, precipitation totals, snow totals, and heating & cooling degree days are provided. The "Normals, Means, and Extremes" table display monthly temperature, precipitation and snowfall averages. Wind and humidity climatology data, a monthly tally of rain days, snow days and days within selected temperature thresholds along with a narrative climate description. The publication and CDROM are usually available within 3 - 6 months after the end of the year. Years 2000 / 2001 Each Year **\$75.00**
 Year 2002 **\$100.00**

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